

Advance your career in science

with professional recognition that showcases
your **experience, expertise and dedication**

Stand out from the crowd

Prove your commitment
to attaining excellence in
your field

Gain the recognition you deserve

Achieve a professional
qualification that inspires
confidence and trust

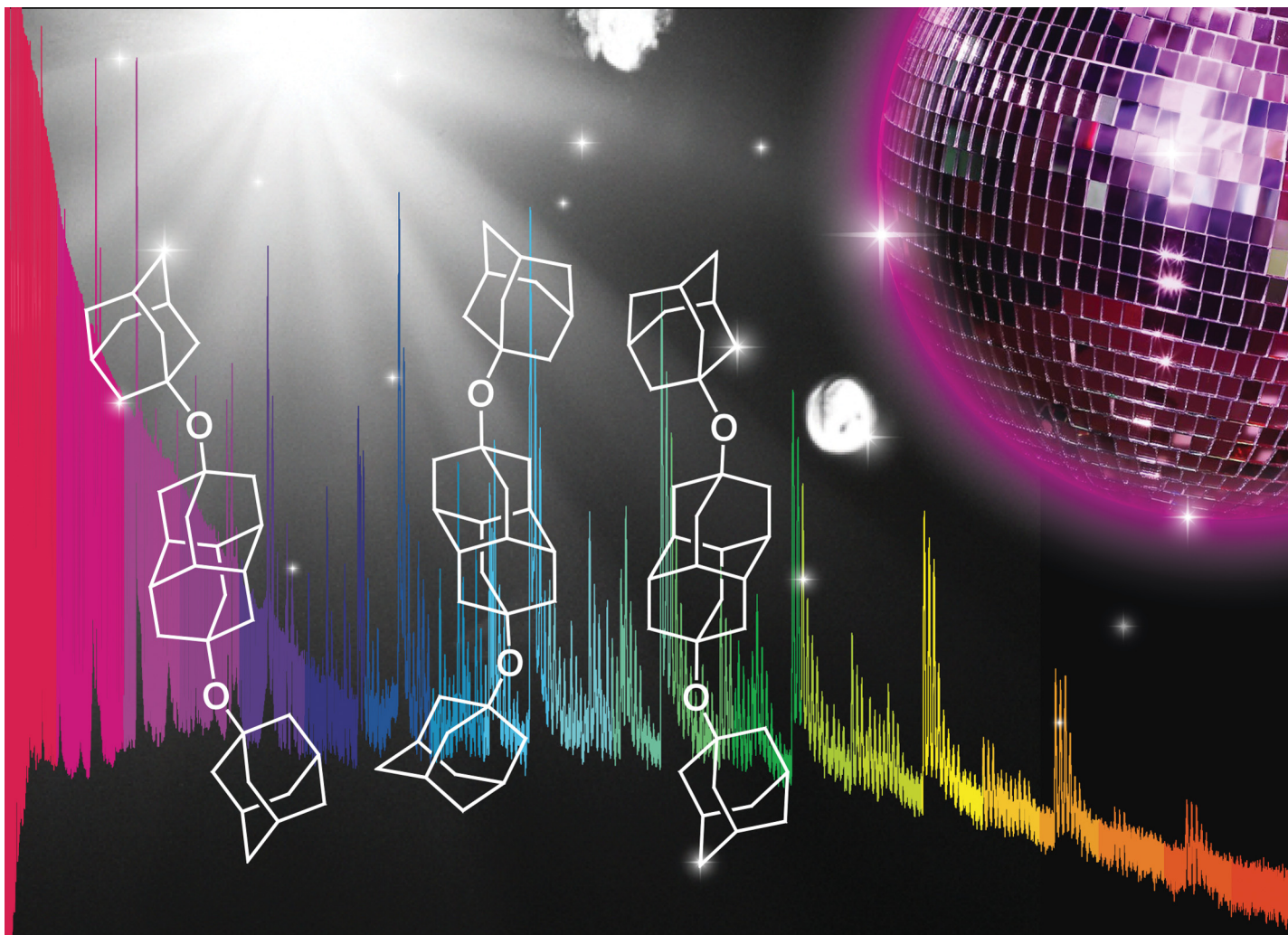
Unlock your career potential

Apply for our professional
registers (RSci, RSciTech)
or chartered status
(CChem, CSci, CEnv)

Apply now

rsc.li/professional-development





Showcasing research from the cooperation between the Ruđer Bošković Institute, Croatia (Dr Marina Šekutor) and Graz University of Technology, Austria (Dr Florian Lackner and Em. Prof. Dr Wolfgang E. Ernst)

Diamondoid ether clusters in helium nanodroplets

Hangin' out in helium: Self-assembly of diamondoid ethers in helium nanodroplets leads to significant differences in formed magic number clusters when compared to hydrocarbons. By combining experimental and computational methods it is shown that interplay of London dispersion and hydrogen bonding of oxygens with trace water is responsible for the aggregation behaviour. Thus, molecular design combining different interaction modes can control cluster stability.

Image created by and reproduced with permission of Vesna Uglješić, M.A.

As featured in:



See Florian Lackner, Wolfgang E. Ernst, Marina Šekutor *et al.*, *Phys. Chem. Chem. Phys.*, 2023, 25, 11951.